



**5.5" Production**  
**Cement Post Job Report**

Prepared For: Mr. Mike Schweizer  
Prepared Date: 8/31/2017  
Job Date: 8/31/2017

**PDC Energy, Inc.**  
**McGlothlin Farms 4Y-314**  
**Weld County, CO**

Prepared By: Paul Novotny  
Phone: (720) 441-9745  
Email: paul.novotny@otexpumping.com



# Job Summary

Ticket Number	Ticket Date
TN# FL2245	8/31/2017

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-44008
WELL NAME	RIG	JOB TYPE
McGlothlin Farms 4Y-314	Ensign 161	Production
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
SESE 4 - 5N - 64W	Cheal, Sam	John Falton

EMPLOYEES		
Douglas, Brian	Melgarejo, Eduardo	
Watkins, Robert		
Chapman Goodman, Donald		

<b>WELL PROFILE</b>			
Max Treating Pressure (psi):	4500	Bottom Hole Static Temperature (°F):	210
Bottom Hole Circulating Temperature (°F):		Well Type:	Oil

Open Hole		50				
1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)	
	8 1/2	1631	14383	1631	6742	
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)	

Casing/Tubing/Drill Pipe							
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Surface	9 5/8	36	J-55	0	1631	0	1631
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Production	5 1/2	20	P-110	0	14378	0	6742
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

## CEMENT DATA

Stage 1:	From Depth (ft):	0	To Depth (ft):	14378
Type: <b>SingleSlurry</b>	Volume (sacks):	2135	Volume (bbls):	684.4

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% 35:65:0(POZ:G:GEL)+0.4% ASM-3+0.3% CFR+0.6% C-17+25% Silica Flour	13.5	1.80	8.77

## SUMMARY

Preflushes:	30 bbls of SAPP	Calculated Displacement (bbl):	319.1
	10 bbls of Dye	Actual Displacement (bbl):	323
	50 bbls of Weighted Spacer		
Total Preflush/Spacer Volume (bbl):	90	Plug Bump (Y/N):	Yes
Total Slurry Volume (bbl):	684.4	Lost Returns (Y/N):	No (if Y, when)
Total Fluid Pumped:	1097.4	Bump Pressure (psi):	2680
Returns to Surface:	Cement 10 bbls		

Job Notes (fluids pumped / procedures / tools / etc.): **Cement production casing** - Mixed 50bbls of Weighted Spacer with batch mixer 45min before pressure test. [Weighted spacer (41.2bbls fresh water, 9,942lbs barite, 421lbs C-65, 50gal plexaid 803)], Mixed / pumped 815.8bbls Single Slurry Cement @13.5ppg, Displaced with treated fresh water to bump, Pressured up well to open WSS, Displaced another 5bbls. Job pumped through O-Tex 5 1/2" cement head. Returns pumped through rig choke line to minimize cement channeling. TVD @ **6,742ft** / WSS @ **14,375ft** / Shoe @ **14,378ft** / TD @ **14,383ft**. Job performed as per promgam / customer request.

Customer Representative Signature: \_\_\_\_\_ **Thank You For Using**  
**O - TEX Pumping**



# CEMENTING JOB LOG

Project Number	Job Date
FL2245	8/31/2017
State	County
CO	Weld
Customer Representative	Phone
John Falton	970-580-5564
API Number	
05-123-44008	

O-Tex Location	Customer
Brighton, Colorado 303-857-7948	PDC Energy, Inc.
Lease Name	Well No.
McGlothlin Farms 4Y-314	
O-Tex Field Supervisor	Customer Representative
Cheal, Sam	John Falton
Man Hours	API Number
90	05-123-44008

USE THIS FORM TO NOTE ANY ISSUES ENCOUNTERED WITH THE PERFORMANCE OF THIS JOB.  
THIS MAY INCLUDE TIME AT THE SHOP, ON THE ROAD OR DELAYS WITH DRILLING CONTRACTOR.

DATE	TIME	VOLUME	RATE	PRESS		JOB PROCEDURES
				200	Tbg.	
8/30/2017	13:00					Leave Yard
	15:00			50		Arrive at location (requested @1500)
	15:10					Tailgate meeting (talk about spotting trucks) / sign in
	15:15			50		Set spill containment / Spot SCM pump units & batch mix unit
	15:25					Rig in / Test cement mix water
8/31/2017	0:30			50		Mix weighted spacer with batch mixer
	1:15					Safety meeting with O-Tex crew / rig crew / third party crew
	2:15	1	bbbl	1.50	550	Fill line
	2:17				5100	Pressure test iron
	2:19	10	bbbl	7.20	1371	Pump pre-flush (fresh water)
	2:22	30	bbbl	7.30	1336	Pump pre-flush (300lbs SAPP)
	2:30	10	bbbl	7.30	1509	Pump fresh water spacer (Red Dye)
	2:32	50	bbbl	7.30	1500	Pump weighted spacer into SCM unit, then down hole
	2:40	684.4	bbbl	7.20	647	Mix / pump Single Slurry cement
	4:18				0	Shutdown / wash pump unit / clear line
	4:27				0	Drop plug
	4:28	323	bbbl	7.50	2050	Displace with treated fresh water
	5:10			5.00	2070	Slow pump rate to bump plug
	5:17			5.00	2670	Bump plug
	5:18				2800	Hold pressure for 5 min.
	5:23	1	bbbl	1.50	4130	Pressure up well to open WSS
	5:24	5	bbbl	4.00	2230	Displace with treated fresh water
	5:26				0	Check float (2.5bbbls back)
	6:00					Rig out
	6:50					AAR / discuss leaving location
	7:00					Leave location

### JOB CALCULATIONS

Cement coverage 0 - 14,378ft
TVD @ 6,742ft / WSS @ 14,375ft / Shoe @ 14,378ft / TD @ 14,383ft
10bbbls cement back to surface
Total fresh water needed for job 885bbbls

### CASING DATA

Surface casing 9 5/8" 36# 0 - 1,631ft. (ann. 0.0479)
Production casing 5 1/2" 20# 0 - 14,378ft (cap. 0.0222)

### ANNULAR DATA

OH 8 1/2" 1,631 - 14,383ft. (ann. 0.0408)
15% excess for Single Slurry cement (only in open hole)

**PLEASE NOTE ANY CONTRACTOR ISSUES OR COMMENTS BELOW**